

American Certification Body, Inc.

6731 Whittier Avenue Suite C110 McLean, VA 22101

RF exposure analysis for the equipment N5321 (FCC ID: VV7-MBMN5321; IC:287AG-MBMN5321)

The device N5321 (FCC ID: VV7-MBMN5321; IC: 287AG-MBMN5321) is designed as module to be installed in other devices. This device is to be used only for fixed and mobile applications. If the final product after integration is intended for portable use, new applications and FCC and IC are required.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all the persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

MPE exposure limits

The table below is excerpted from Table 1B of 47 CFR 1.1310 titled Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure:

Frequency Range (MHz)	Power density (mW/cm ²)	Averaging time (minutes)					
300 – 1500	f (MHz) /1500	30					
1500 – 100.000	1,0	30					

The table below is excerpted from RSS-102, Issue 4, 4.2, titled "RF Limits for Devices used by the General Public":

Frequency Range (MHz)	Power density (W/m ²)	Averaging time (minutes)
300 – 1500	f (MHz) /150	6
1500 – 100.000	10	6

EIRP/ERP limits

For 850 MHz frequency band and according to FCC §22.913 the maximum ERP of the device is 7 W (equivalent to 11,48 W EIRP) while IC SRSP-503 defines an EIRP limit of 11,5 W.

For 1900 MHz frequency band and according to FCC §24.232 and IC SRSP-510, the maximum EIRP of the device should be lower than 2 W.

Using the equation $S = \frac{PG}{4\pi R^2}$ to calculate the exposure to electromagnetic fields

where: S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

The maximum allowed gains of the antennas to be used with this device in order to guarantee compliance with MPE and ERP/EIRP can be calculated as shown in the following pages.



850 MHz frequency band

Band Modulation Test Mode Chairman Preparation Chemistra Chemist	2G operation																
Marches Mar	Band	Modulation	Test Mode	Cha	nnel		Conducted power	Conducted		limit	per §22.913	per SRSP-503	for compliance with MPE limits	meet FCC/IC MPE limit	meet FCC EIRP limit	meet IC EIRP	
Part				Lowest	128	824,2	31,19	31,32	25%	0,55	11,48	11,50	20	9,24	9,40	9,41	9,24
Marie Mari				Middle	190	836,6	31,37	31,56	25%	0,56	11,48	11,50	20	9,12	9,22	9,23	9,12
Note		OMEN		Highest	251	848,8	31,53	31,66	25%	0,57	11,48	11,50	20	9,03	9,06	9,07	9,03
Part		GWISK		Lowest	128	824,2	31,10	31,21	50%	0,55	11,48	11,50	20	6,32	9,49	9,50	6,32
Control Part Part Control Part Par				Middle	190	836,6	31,23	31,42	50%	0,56	11,48	11,50	20	6,25	9,36	9,37	6,25
Negligible 1				Highest	251	848,8	31,37	31,55	50%	0,57	11,48	11,50	20	6,18	9,22	9,23	6,18
Part				Lowest	128	824,2	26,46	29,55	25%	0,55	11,48	11,50	20	13,97	14,13	14,14	13,97
Case Part Max David Sum Part Part David Sum Part Part David Sum Part Part David Sum			4Down1Up Duty factor 1/8	Middle	190	836,6	26,55	29,71	25%	0,56	11,48	11,50	20	13,94	14,04	14,05	13,94
Machon M		8PSK		Highest	251	848,8	26,64	29,83	25%	0,57	11,48	11,50	20	13,92	13,95	13,96	13,92
Part				Lowest	128	824,2	26,36	29,47	50%	0,55	11,48	11,50	20	11,06	14,23	14,24	11,06
Note Part			factor 2/8	- ' ' '		,.	-, -			-,		,	-	,			11,00
			1	Highest	251	848,8	26,51	29,74	50%	0,57	11,48	11,50	20	11,04	14,08	14,09	11,04
Modelsing Mode	3G operation																
MCDMAY	Band	Modulation	or	C	ж		Conducted power	Conducted		limit	per §22.913	per SRSP-503	for compliance with MPE limits	meet FCC/IC MPE limit	meet FCC EIRP limit	meet IC EIRP limit	meet all the limits
HSDPAV Highest 4233 846.6 22.33 28.46 100% 0.66 11.48 11.50 20 12.29 18.36 18.37 12.29 Lovest 4132 036.4 22.18 25.19 100% 0.55 11.48 11.50 20 12.24 18.41 18.42 12.24 1 Model 4183 138.6 22.21 25.23 10.0% 0.55 11.48 11.50 20 12.26 18.38 18.39 12.25 Highest 42.33 846.6 21.99 25.06 100% 0.56 11.48 11.50 20 12.26 18.43 18.40 12.26 Lovest 4132 036.4 22.16 25.17 100% 0.55 11.48 11.50 20 12.26 18.43 18.40 12.26 1 Model 4183 138.6 22.20 25.22 18.22 17 100% 0.55 11.48 11.50 20 12.26 18.43 18.40 12.26 1 Model 4183 138.6 22.20 25.22 18.22 18.20 11.48 11.50 20 12.26 18.43 18.40 12.26 1 Model 4183 138.6 21.87 25.04 100% 0.56 11.48 11.50 20 12.25 18.22 18.83 12.25 1 Model 4183 138.6 21.89 25.04 100% 0.56 11.48 11.50 20 12.25 18.22 18.83 12.25 1 Model 4183 138.86 21.80 24.87 100% 0.55 11.48 11.50 20 12.25 18.90 18.91 12.27 1 Model 4183 138.86 21.80 24.87 100% 0.56 11.48 11.50 20 12.27 18.92 18.93 12.25 1 Model 4183 138.86 21.80 24.87 100% 0.56 11.48 11.50 20 12.27 18.90 18.91 12.28 1 Model 4183 138.86 21.80 24.87 100% 0.56 11.48 11.50 20 12.27 18.90 18.91 12.28 1 Model 4183 138.86 21.80 24.87 100% 0.56 11.48 11.50 20 12.27 18.90 18.90 12.27 18.90 18.91 12.28 1 Model 4183 138.86 21.80 24.87 100% 0.56 11.48 11.50 20 12.27 18.90 18.91 12.28 1 Model 4183 138.86 21.80 24.87 100% 0.56 11.48 11.50 20 12.27 18.90 18.91 12.28 1 Model 4183 138.86 21.80 23.81 100% 0.56 11.48 11.50 20 12.24 12.41 19.11 19.12 12.84 1 Model 4183 138.86 21.80 22.18 23.81 11.80 11.50 20 13.30 20.10 20.11 13.81 1				Lowest	4132	826,4	22,34	25,54	100%	0,55	11,48	11,50	20	12,08	18,25	18,26	12,08
HSDPAV Lowest 4132 826.4 22.18 25.19 100% 0.55 11.48 11.50 20 12.24 18.41 18.42 12.24 1 Mode	W CDMA V	RMC12.2K		Middle	4183	836,6	22,40	25,72	100%	0,56	11,48	11,50	20	12,07	18,19	18,20	12,07
HSDPA V Highest 4333 846.8 22.21 25.23 100% 0.56 11.48 11.50 20 12.26 18.38 18.39 12.26 Lowest 4132 828.4 22.16 25.7 100% 0.55 11.48 11.50 20 12.28 18.43 18.40 12.28 2 Madis 4183 836.6 21.99 25.06 100% 0.56 11.48 11.50 20 12.28 18.43 18.40 12.28 2 Madis 4183 836.6 22.20 28.22 100% 0.56 11.48 11.50 20 12.27 13.39 18.40 12.27 Highest 4233 846.8 21.97 25.04 100% 0.56 11.48 11.50 20 12.55 18.62 18.63 12.55 3 Madis 4183 836.6 21.69 24.71 100% 0.56 11.48 11.50 20 12.75 18.92 18.63 12.55 Highest 4233 846.8 21.69 24.71 100% 0.56 11.48 11.50 20 12.75 18.92 18.83 12.55 Highest 4233 846.8 21.69 24.71 100% 0.56 11.48 11.50 20 12.75 18.92 18.93 18.91 12.76 4 Madis 4183 836.6 21.69 24.71 100% 0.56 11.48 11.50 20 12.76 18.93 18.91 12.76 Highest 4233 846.8 21.69 24.71 100% 0.56 11.48 11.50 20 12.76 18.93 18.91 12.76 Highest 4233 846.8 21.69 24.71 100% 0.56 11.48 11.50 20 12.76 18.93 18.91 12.76 Highest 4233 846.8 21.69 24.77 100% 0.56 11.48 11.50 20 12.76 18.93 18.91 12.76 Highest 4233 846.8 21.69 23.71 100% 0.56 11.48 11.50 20 12.77 18.89 18.90 12.77 Highest 4233 846.8 21.46 24.53 100% 0.56 11.48 11.50 20 12.77 18.89 19.91 12.77 Highest 4233 846.8 21.69 23.71 100% 0.56 11.48 11.50 20 12.78 18.93 19.14 13.60 DPSK 1 Madis 4183 836.6 21.69 23.71 100% 0.56 11.48 11.50 20 12.78 18.93 19.14 13.60 Lowest 4132 82.64 19.49 21.57 100% 0.56 11.48 11.50 20 14.78 20.91 12.78 18.91 12.78 HIGHER 4233 846.6 19.33 21.46 100% 0.56 11.48 11.50 20 14.79 20.91 12.70 12.44 13.16 12.78 Lowest 4132 82.64 19.49 21.57 100% 0.56 11.48 11.50 20 14.79 20.91 12.70 12.11 13.53 Lowest 4132 82.64 19.69 22.77 100% 0.56 11.48 11.50 20 14.79 20.91 12.70 12.91 13.79 Highest 4233 846.6 19.83 22.65 13.60 22.77 100% 0.56 11.48 11.50 20 14.79 20.91 12.70 12.91 13.79 Highest 4233 846.6 19.83 22.67 100% 0.56 11.48 11.50 20 14.79 20.91 12.70 12.91 13.79 Highest 4233 846.6 19.83 22.66 12.69 10.0% 0.56 11.48 11.50 20 14.49 20.21 20.22 14.74 13.91 Highest 4233 846.6 19.83 22.60 10.60 0.65 11.48 11.50 20 14.49 20.21 20.22 14.74 14.74 Lowest 4132 82				Highest	4233	846,6	22,23	25,46	100%	0,56	11,48	11,50	20	12,29	18,36	18,37	12,29
Highest 4233 846.6 21,99 25.06 100% 0.56 11.48 115.0 20 12.53 18.60 18.81 12.53 Lowest 4132 826.4 22.16 25.17 100% 0.56 11.48 115.0 20 12.26 18.43 19.44 12.26 Highest 4233 846.6 22,97 25.04 100% 0.56 11.48 115.0 20 12.27 18.59 18.00 12.27 Highest 4233 846.6 22.97 25.04 100% 0.56 11.48 115.0 20 12.27 18.82 18.63 12.55 Lowest 4132 826.4 21.67 24.88 100% 0.56 11.48 115.0 20 12.75 18.82 18.63 12.55 Lowest 4132 826.4 21.67 24.88 100% 0.55 11.48 115.0 20 12.75 18.82 18.93 12.75 Highest 4233 846.6 21.90 24.71 100% 0.56 11.48 115.0 20 12.76 18.82 18.93 12.75 Highest 4233 846.6 21.50 24.67 100% 0.56 11.48 115.0 20 12.76 18.93 18.94 12.76 Highest 4233 846.6 21.50 24.67 100% 0.56 11.48 115.0 20 12.76 18.93 18.94 12.76 Highest 4233 846.6 21.70 24.72 100% 0.56 11.48 115.0 20 12.76 18.93 18.94 12.76 Highest 4233 846.6 21.70 24.72 100% 0.56 11.48 115.0 20 12.76 18.93 18.94 12.76 Highest 4233 846.6 21.76 24.67 100% 0.56 11.48 115.0 20 12.76 18.93 18.94 12.76 Highest 4233 846.6 21.70 24.72 100% 0.56 11.48 115.0 20 12.76 18.93 18.94 12.76 Highest 4233 846.6 21.76 24.67 100% 0.56 11.48 115.0 20 12.76 18.93 18.94 12.76 Highest 4233 846.6 21.80 23.71 100% 0.56 11.48 115.0 20 12.76 18.93 19.14 13.16 12.76 Highest 4233 846.6 21.80 23.71 100% 0.56 11.48 115.0 20 12.74 18.90 18.91 12.78 Highest 4233 846.6 21.80 23.81 10.83 10.84 11.80 20 14.79 20.91 12.71 14.93 12.74 Highest 4233 846.6 21.80 23.81 10.83 10.84 11.80 20 14.79 20.91 12.71 14.93 12.74 12.75 12				Lowest	4132	826,4	22,18	25,19	100%	0,55	11,48	11,50	20	12,24	18,41	18,42	12,24
HSDPAV Company Compan			1	Middle	4183	836,6	22,21	25,23	100%	0,56	11,48	11,50	20	12,26	18,38	18,39	12,26
HSDPA V HSDPA				Highest	4233	846,6	21,99	25,06	100%	0,56	11,48	11,50	20	12,53	18,60	18,61	12,53
Highest 4233 846.6 21.97 25.04 100% 0.56 11.48 11.50 20 12.55 18.62 18.83 12.55 Highest 4233 846.6 21.67 24.88 100% 0.55 11.48 11.50 20 12.75 18.62 18.83 12.75 Highest 4233 846.6 21.50 24.57 100% 0.56 11.48 11.50 20 12.78 18.90 18.91 12.75 Highest 4233 846.6 21.50 24.57 100% 0.56 11.48 11.50 20 12.77 18.89 18.90 18.91 12.75 Highest 4233 846.6 21.50 24.57 100% 0.56 11.48 11.50 20 12.77 18.89 18.90 12.77 Highest 4233 846.6 21.50 24.57 100% 0.56 11.48 11.50 20 12.77 18.89 18.90 12.77 Highest 4233 846.6 21.60 24.67 100% 0.56 11.48 11.50 20 12.77 18.89 18.90 12.77 Highest 4233 846.6 21.60 24.57 100% 0.56 11.48 11.50 20 12.77 18.89 18.90 12.77 Highest 4233 846.6 21.60 24.57 100% 0.56 11.48 11.50 20 12.77 18.89 18.90 12.77 Highest 4233 846.6 21.69 23.71 100% 0.56 11.48 11.50 20 12.78 18.90 18.91 12.78 Highest 4233 846.6 21.69 23.71 100% 0.56 11.48 11.50 20 12.78 18.90 18.91 12.78 Highest 4233 846.6 21.69 23.71 100% 0.56 11.48 11.50 20 13.78 18.92 19.24 13.16 Highest 4233 846.6 21.69 23.71 100% 0.56 11.48 11.50 20 13.78 18.90 18.91 12.78 Highest 4233 846.6 19.33 21.46 100% 0.56 11.48 11.50 20 13.79 19.91 19.23 19.24 13.16 19.00				Lowest	4132	826,4	22,16	25,17	100%	0,55	11,48	11,50	20	12,26	18,43	18,44	12,26
HSPAV A			2	Middle	4183	836,6	22,20	25,22	100%	0,56	11,48	11,50	20	12,27	18,39	18,40	12,27
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Maximum antenna gain for 850 MHz frequency band: 6,18 dBi



1900 MHz frequency band

2G operation																
Band	Modulation	Test Mode	Cha	annel	Frequency (MHz)	Avg burst Conducted power (dBm)	Peak Conducted power (dBm)	Duty cicle (%)	FCC/IC MPE limit (mW/cm²)	FCC EIRP limit per §24.232 (W)	IC EIRP limit per SRSP-510 (W)	Evaluation distance for compliance with MPE limits (cm)	Antenna gain to meet FCC/IC MPE limit (dBi)	Antenna gain to meet FCC EIRP limit (dBi)	Antenna gain to meet IC EIRP limit (dBi)	Maximun antenna gain to meet all the limits (dBi)
			Lowest	512	1850,2	28,53	28,69	25%	1,00	2,00	2,00	20	14,50	4,48	4,48	4,48
		4Down1Up Duty factor 1/8	Highest	661	1909,8	28,71	28,88	25%	1,00	2,00	2,00	20	14,32	4,30	4,30	4,30
GPRS 1900 Multi	01101/		Highest	810	1909,8	28,87	29,03	25%	1,00	2,00	2,00	20	14,16	4,14	4,14	4,14
Class :10 Max Up:2 Max Down:4 Sum:5	GMSK		Lowest	512	1850,2	28,44	28,56	50%	1,00	2,00	2,00	20	11,58	4,57	4,57	4,57
		3Down2Up Duty factor 2/8	Highest	661	1909,8	28,66	28,74	50%	1,00	2,00	2,00	20	11,36	4,35	4,35	4,35
			Highest	810	1909,8	28,75	28,89	50%	1,00	2,00	2,00	20	11,27	4,26	4,26	4,26
			Lowest	512	1850,2	25,63	28,81	25%	1,00	2,00	2,00	20	17,40	7,38	7,38	7,38
		4Down1Up Duty factor 1/8	Middle	661	1880,0	25,72	28,93	25%	1,00	2,00	2,00	20	17,31	7,29	7,29	7,29
EGPRS 1900 Multi Class :10 Max Up:2	8PSK		Highest	810	1909,8	25,91	29,01	25%	1,00	2,00	2,00	20	17,12	7,10	7,10	7,10
Class :10 Max Up:2 Max Down:4 Sum:5	8P3K		Lowest	512	1850,2	25,52	28,73	50%	1,00	2,00	2,00	20	14,50	7,49	7,49	7,49
		3Down2Up Duty factor 2/8	Highest	661	1909,8	25,71	28,88	50%	1,00	2,00	2,00	20	14,31	7,30	7,30	7,30
			Highest	810	1909,8	25,86	28,96	50%	1,00	2,00	2,00	20	14,16	7,15	7,15	7,15
3G operation																
Band	Modulation	Date Rate or Sub-test	(ЭН	Frequency (MHz)	Avg burst Conducted power (dBm)	Peak Conducted power (dBm)	Duty cicle (%)	FCC/IC MPE limit (mW/cm²)	FCC EIRP limit per §24.232 (W)	IC EIRP limit per SRSP-510 (W)	Evaluation distance for compliance with MPE limits (cm)	Antenna gain to meet FCC/IC MPE limit (dBi)	Antenna gain to meet FCC EIRP limit (dBi)	Antenna gain to meet IC EIRP limit (dBi)	Maximun antenna gain to meet all the limits (dBi)
			Lowest	9262	1852,4	22,32	25,12	100%	1,00	2,00	2,00	20	14,69	10,69	10,69	10,69
WCDMA II	RMC12.2K		Middle	9400	1880,0	22,43	25,24	100%	1,00	2,00	2,00	20	14,58	10,58	10,58	10,58
			Highest	9538	1907,6	22,24	25,08	100%	1,00	2,00	2,00	20	14,77	10,77	10,77	10,77
			Lowest	9262	1852,4	22,18	24,99	100%	1,00	2,00	2,00	20	14,83	10,83	10,83	10,83
		1	Middle	9400	1880,0	22,32	25,05	100%	1,00	2,00	2,00	20	14,69	10,69	10,69	10,69
	QPSK		Highest	9538	1907,6	22,11	24,96	100%	1,00	2,00	2,00	20	14,90	10,90	10,90	10,90
			Lowest	9262	1852,4	22,16	24,97	100%	1,00	2,00	2,00	20	14,85	10,85	10,85	10,85
		2	Middle	9400	1880,0	22,31	25,04	100%	1,00	2,00	2,00	20	14,70	10,70	10,70	10,70
HSDPA II			Highest	9538	1907,6	22,08	24,93	100%	1,00	2,00	2,00	20	14,93	10,93	10,93	10,93
		3	Lowest	9262	1852,4	21,69	24,50	100%	1,00	2,00	2,00	20	15,32	11,32	11,32	11,32
			Middle	9400	1880,0	21,80	24,53	100%	1,00	2,00	2,00	20	15,21	11,21	11,21	11,21
			Highest	9538	1907,6	21,60	24,45	100%	1,00	2,00	2,00	20	15,41	11,41	11,41	11,41
			Lowest	9262	1852,4	21,67	24,48	100%	1,00	2,00	2,00	20	15,34	11,34	11,34	11,34
			Middle	9400	1880,0	21,79	24,52	100%	1,00	2,00	2,00	20	15,22	11,22	11,22	11,22
			Highest	9538	1907,6	21,59	24,44	100%	1,00	2,00	2,00	20	15,42	11,42	11,42	11,42
		1	Lowest	9262	1852,4	21,32	24,15	100%	1,00	2,00	2,00	20	15,69	11,69	11,69	11,69
			Middle	9400	1880,0	21,46	24,27	100%	1,00	2,00	2,00	20	15,55	11,55	11,55	11,55
			Highest	9538	1907,6	21,28	24,11	100%	1,00	2,00	2,00	20	15,73	11,73	11,73	11,73
		2	Lowest	9262	1852,4	19,34	22,17	100%	1,00	2,00	2,00	20	17,67	13,67	13,67	13,67
			Middle	9400	1880,0	19,45	22,26	100%	1,00	2,00	2,00	20	17,56	13,56	13,56	13,56
			Highest	9538	1907,6	19,29	22,12	100%	1,00	2,00	2,00	20	17,72	13,72	13,72	13,72
		3	Lowest	9262	1852,4	20,34	23,17	100%	1,00	2,00	2,00	20	16,67	12,67	12,67	12,67
HSUPA II	-		Middle	9400	1880,0	20,44	23,25	100%	1,00	2,00	2,00	20	16,57	12,57	12,57	12,57
			Highest	9538	1907,6	20,27	23,10	100%	1,00	2,00	2,00	20	16,74	12,74	12,74	12,74
		4	Lowest	9262	1852,4	19,31	22,14	100%	1,00	2,00	2,00	20	17,70	13,70	13,70	13,70
			Middle	9400	1880,0	19,44	22,25	100%	1,00	2,00	2,00	20	17,57	13,57	13,57	13,57
			Highest	9538	1907,6	19,27	22,10	100%	1,00	2,00	2,00	20	17,74	13,74	13,74	13,74
		5	Lowest	9262	1852,4	21,30	24,13	100%	1,00	2,00	2,00	20	15,71	11,71	11,71	11,71
			Middle	9400	1880,0	21.45	24,26	100%	1,00	2,00	2,00	20	15,56	11,56	11,56	11,56

Maximum antenna gain for 1900 MHz frequency band: 4,14 dBi